

In the claims:

Claims 1-16 cancelled.

17. (Previously presented) A device for sensing seismic and/or acoustic vibrations, comprising a body of a particulate material composed of a plurality of individual particles; and means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations, wherein said particles are treated with an electrically conductive substance.

18. (Previously presented) A device as defined in claim 17, wherein said particles are not electrically conductive and are treated with said electrically conductive substance.

19. (Previously presented) A device as defined in claim 17, wherein said particles are electrically conductive and are additionally treated with an electrically conductive substance to enhance their electrically conductive properties.

20. (Currently amended) A device as defined in claim 17, wherein said electrically conductive substance is a substance selected from the group consisting of ~~fullerine~~fullerenes and nanotubes.

21. (Previously presented) A device for sensing seismic and/or acoustic vibrations, comprising a body of a particulate material composed of a plurality of individual particles; means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations; and a casing which encloses said body of particulate material, said casing being composed of a non electrically conductive material and has a plurality of ventilating perforations, said casing has an upper area which is not provided with said perforations, and a lower area provided with said perforations, so that said upper area of said casing is solid and water-impermeable to prevent excessive moisturizing of the particulate material by water from rain and melting snow.

22. (Previously presented) A device as defined in claim 21, wherein said casing is composed of a flexible material.

23. (Currently amended) A device for sensing seismic and/or acoustic vibrations, comprising a body of particulate material composed of

a plurality of individual particles treated with an electrically conductive substance; and means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations, said means including at least two electrodes arranged in contact with said body of said particulate material and spaced from one another; and means for determining voltage changes between the electrodes, said electrodes having a height substantially corresponding to a height of said body of said particulate material and a width substantially corresponding to a width of said body of said particulate material.

24. (Previously presented) A device as defined in claim 23, wherein each of said electrodes is composed of a plurality of electrode parts electrically connected with one another, said means further including a voltage source, an amplifier, an analog-digital convertor and a microcontroller.